

Patent Abstracts of Japan

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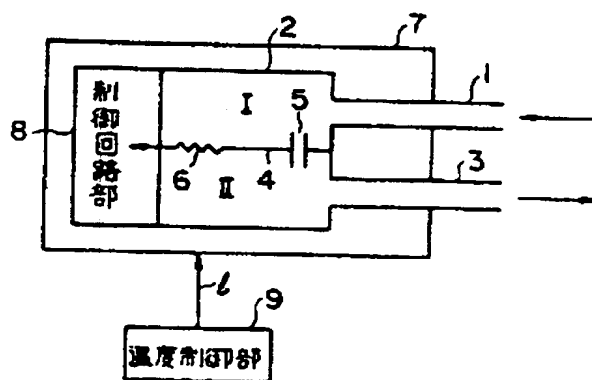
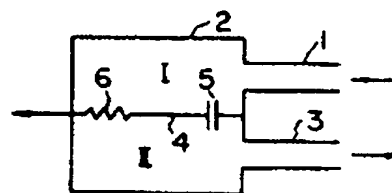
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TITLE : DIFFERENTIAL PRESSURE TYPE
FLOW METER



ABSTRACT : **PURPOSE:** To unify and simplify a structure and to measure a flow rate accurately by dividing a case body into two rooms to lead fluid into one room and discharge the fluid from the other room and forming a stopping mechanism and a differential pressure conversion part on a bulkhead in the case.

CONSTITUTION: An upper side conduit 1 and a lower side conduit 3 are formed in the case body 2. In addition, the bulkhead 4 is formed in the case body 2 to divide the case body into two rooms I, II and the stopping mechanism 5 and the differential pressure conversion part (e.g. a diaphragm) 6 are formed on the bulkhead 4. Gas or the like flowing from a lead-in pipe 1 is led into the room I, sent to the room II through the stopping pipe 5 and then exhausted from the conduit 3. At that time, the diaphragm 6 is displaced on the basis of the differential pressure between the rooms I, II and the flow rate is electrically detected from the displacement. The case body 2 is stored in a temperature shielding body 7 and the differential pressure is detected at a fixed temperature to measure the flow rate highly accurately. Since the differential detector is unified with the case body, the structure can be simplified and the flow rate can be detected highly accurately.

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